TENNESSEE DEPARTMENT OF AGRICULTURE
Water Resources Program

April 14, 2011

Ms. Erin O'Brien
TDEC
L&C Annex, 6th Floor
Nashville, Tennessee 37243

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Nutrient Management Plan (NMP) for CAFO permit for Mr. Marvin Betts in Winchester, Tennessee (previous NPDES Permit NO. TNA000144 for "Chick Inn"). Due to integrator rules regarding poultry house upgrades, Mr. Betts will be unable to keep "Chick Inn" operating throughout the entire permitting cycle. He is requesting that "A Fowl Place" be used as the primary Farm and that both farms, due to situation and their close proximity, be placed under the same permit. Once "Chick Inn" ceases operation, Mr. Betts will begin implementing his Closure Plan and notify the Tennessee Department of Environment and Conservation. Mr. Betts will also follow the guidelines set forth in his latest permit under Section 3.1 NMP Changes and Section 6.6 Planned Changes (submit a new revised Notice of Intent form and NMP).

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form, the NMP, signed Addendum to Nutrient Management Plan, signed Closure Plan, and stamped Approval Stamp form for your review and final approval.

Sincerely,

Angela L. Warden
CAFO Specialist

: //enclosures

Ellington Agricultural Center
440 Hogan Road
Nashville, TN 37220
Telephone: 615-837-5492 Fax: 615-837-5025

TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

Name of Owner/Operator: Marvin D. Betts

Operation Name: A Fowl Place / Chick Inn

Address of Operation: 6859 Tanyard Hill Rd. Winchester, TN 37398 – A Fowl Place
7012 Tanyard Hill Rd. Winchester, TN 37398 – Chick Inn

Phone Number: (931) 967-8432
(931) 636-7026

County: Moore / Franklin

Date application was initiated:

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Date approval forwarded to TDEC:

APR 14 2011

NMP/CNMP Approval Date:

THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT

APR 14 2011

OPERATION OR AS WARRANTING THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS

Date approval received by TDEC

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TDA Reviewer's Name: Angela Warden

TDA Reviewer's Signature: A. Warden 4/14/11
Date

Britts Place/ Inn   Winchester, TN

Nutrient Management Plan Requirements

Moore

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

☑ 1. **Two maps: (1.)** A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. **(2.)** A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.

N 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.

N 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.

☑ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.

N 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.

☑ 6. Statement regarding method of **dead animal disposal**.

☑ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage **liquid manure**.

N 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.

N 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

☑ ***Notice of Intent* form** must be submitted with all applications from Class II (Medium) CAFOs

OR

N **EPA Forms 1 and 2B** must be submitted with all applications from Class I (Large) CAFOs.

☑ **Addendum to Nutrient Management Plan**.

Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- The most current litter analysis will be provided to anyone removing litter from the farm.
- Any dead birds in the houses at the time of closure will be composted.

Date: 4/11/2011

Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
2) All animals in confinement are prevented from coming in direct contact with waters of the state.
3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

Signature of CAFO Operator: _____

Date: 4/10/2011

The maximum number of chickens placed in all 5 houses per growout is 111,000.

Marvin Betts

N ient Management Plan - Po ry

For Use by Farms

Exporting 100% of Litter Generated

1. Farmer/ Producer Information

Is **ALL** Litter Hauled Offsite*

**If the answer is "No," do not complete this form.*

Yes	No
Please circle one	

First Name: Marvin

Last Name: Betts

Farm/ Operation Name: A Fowl Place / Chick Inn

Tennessee County: Moore / Franklin

2. Volumes and Calculations

Poultry Type:

Broiler	Pullet	Layer
circle the type(s)		

Key

A **Number of birds per house per grow-out:** SEE Attachment A

B **Number of Houses:** 5

C **Number of Grow-Outs / Year:** 6

D **Average Weight of Litter Produced (lbs.)/ Bird / Grow-Out *(see Table at right or use your farm average if known)*** 2.4

The amount of litter removed from a poultry house will vary depending on the litter moisture content, type and size of birds, and length of time birds are kept in house. Below is a Table summarized from the NRCS Poultry System Calculator V10.0 to assist in placing the litter amount produced per bird and assist in litter calculations.

Type of Bird	Market/ Mature Weight (lbs)	Avg. Weight of Litter Produced (lbs)/ Bird / Grow-Out
Broilers	small (3.8 - 5 .8)	2.1
	large (5.9 - 7+)	2.4
Layer	8 - 12	8
Pullet	5.5	3

*Take **Bolded** Letters in **Key** Column Above and Below to Assist in Calculating Values Below*

Number of Birds per Grow-Out = A x B = 109,990 110,000 below minimum

Number of Birds Example: If A = 22,000 and B= 2 and C= 5.5 then:
22,000 X 2 = 44,000 number of birds

KEY

E **Number of Birds per Year** = A x B x C = 659,990 660,000

Number of Birds per Year Example: If A = 22,000 and B= 2 and C = 5.5 then:
22,000 x 2 x 5.5 =242,000 number of birds per year

Total Tons of Litter Produced per Year on the Farm = E x D / 2,000 = 790

Tons of Litter Produced Example: If E = 242,000 and D = 2.1 lbs. then:
242,000 x 2.1 lbs = 508,200 lbs. / 2,000 = 254 Tons

Tons of Litter Exported from Farm / Year 790

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3. Litter Handling and Storage

Litter Contents from Manure Analysis

Laboratory Name	House	Date of Analysis	Total N	P_2O_5[a]	K_2O[b]	Units
Univ of Arkansas	Digit	1/13/2011	81/95.8	20.6/21.3	49.2/48.5	lbs./Ton
Univ of Arkansas	Food/Chick	7/2/2010	60/73.7	27.5/28.9	70.5/71.0	lbs./Ton
Univ of Arkasas		4/24/2009	64.4/72.8	25.3/25.5	50.2/51.5	lbs./Ton

I will get an annual manure analysis and provide the results to all parties which are given or purchase litter from my farm or operation.

[illegible] 4/10/2011

Signature / Date Signed

Mortality Management

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

Composting	Incineration	Other:
please circle one		

[illegible] ***initials***

Closure Plan

In the event that poultry production at this location ceases, the following will be done within 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

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[illegible] 4/10/2011

Signature that I have read and agree to this Closure Plan / Date signed

Notes:

N = Nitrogen P_2O_5 = Phosphorus Oxide K_2O = Potassium Oxide

[a]If Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P_2O_5.

[b]If Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to K_2O.

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N ient Management Plan - Po ry

For Use by Farms

Exporting 100% of Litter Generated

4. Checklist

Use this sheet to help ensure that you have included all required items in order for your CAFO application and Nutrient Management Plan to be approved.

Forms

- ✓ • Signed revised Notice of Intent Form
- ✓ • Signed Addendum to Nutrient Management Plan

Maps

- ✓ • Map of Farm/ Operation Showing the Location of Barns/ Houses, Compost Bins, Litter Storage Bins, Nearby Roads, Streams, Wetlands, etc.
- ✓ • Topographical map of the Farm/ Operation showing property lines and location of poultry houses.

Calculations and Volumes

- ✓ • Number of Birds per House
- ✓ • Total Number of Birds per Year
- ✓ • Number of Houses
- ✓ • Number of Grow-Outs Each Year
- ✓ • Average Weight of Birds
- • Tons of Litter Produced Per Year

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Manure Analysis / Mortality Disposal

- ✓ • Annual Manure Analysis Performed by an Accredited Laboratory
- ✓ • Statement Regarding Dead Animal Disposal / Mortality Management*

**If rendering is method listed, make sure to include the name and address of the renderer in the notes area at the bottom of this sheet.*

Notes: Attachment A was used because of the 3 different size Chicken houses at Chick Inn

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Attachment A

A Fowl Place has two 50ft x 500ft broiler houses. Each house has 31,300 chicks placed giving a total of 62,600 chicks per 49 day grow out period. If all goes as planned, we hope to have 6 grow outs per year. A total of 375,600 chickens weighing approximately 6.4 pounds each per year.

Chick Inn has three broiler house that are of different sizes.

#1 house is 38ft x 330ft and has 13,566 per flock on average. With 6 grow outs per year the total chicken for this house is 81,396 per year.

#2 house is 42ft x 400ft and has 19,567 chicks per flock on average. With 6 grow outs per year this house will get 117,402 per year.

3 house is 42ft x 300ft and has 14.566 chicks per flock on average. With 6 grow outs per year this house will get 87,396 chickens per year.

If all works well we can expect to have 286,194 chickens weighing approximately 6.4 pounds each for the year.

30 March 2011

Marvin Betts

Marvin Betts

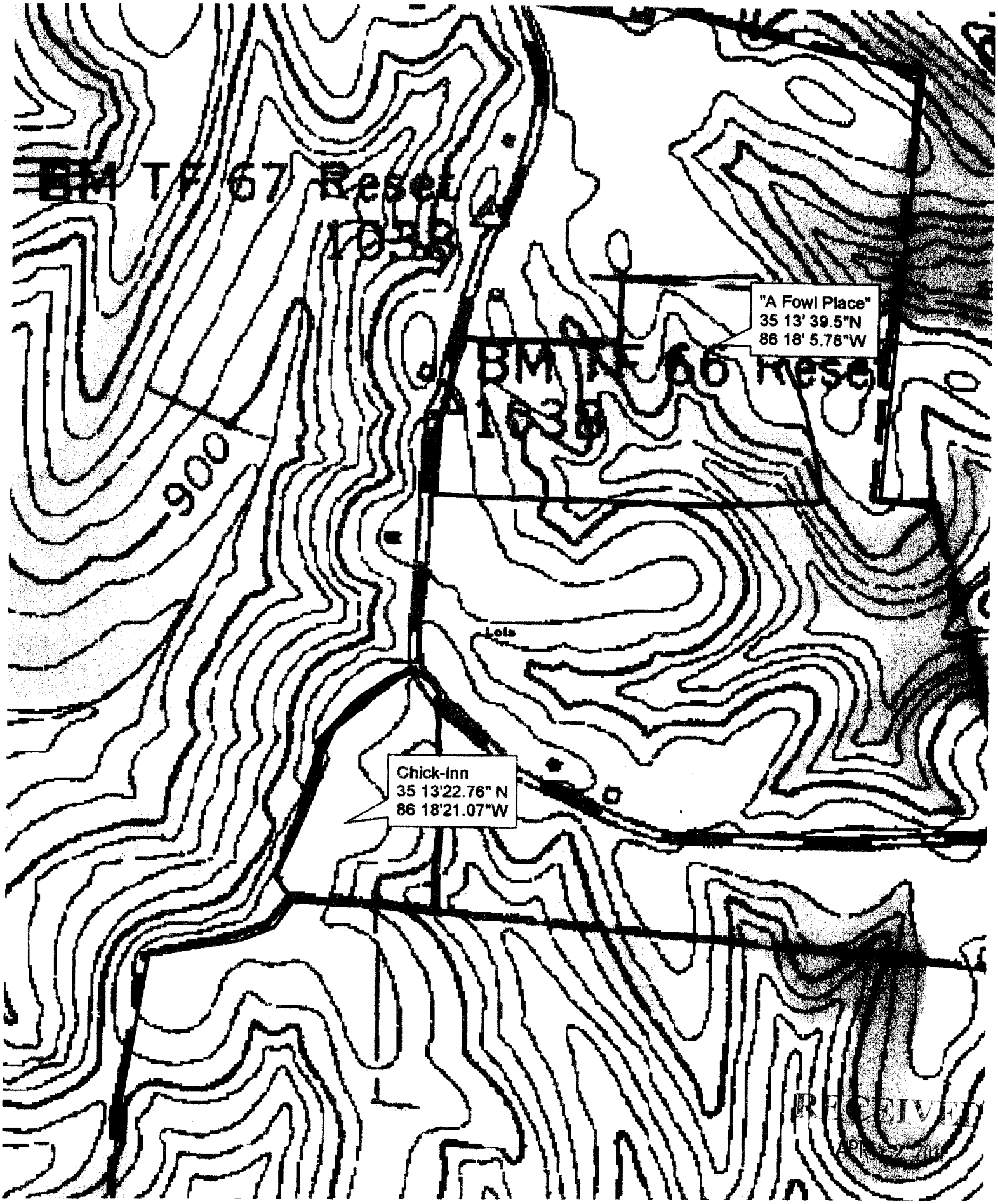
Legend

790 395 0 790 Feet

ortho_1-1_1n_s_tn127_2010_1.sid

RGB

- Red: Band_1
- Green: Band_2
- Blue: Band_3


BM TF 67 Reset
1035
"A Fowl Place"
35 13' 39.5"N
86 18' 5.78"W
BM TF 66 Reset
1038
900
Lois
Chick-Inn
35 13'22.76" N
86 18'21.07"W